

Title (en)  
HYDRAULIC MOTOR HAVING RADIAL CYLINDERS AND CONTINUOUS VARIABLE DISPLACEMENT

Title (de)  
HYDRAULIKMOTOR MIT RADIALEN ZYLINDERN UND STUFENLOS VERSTELLBARER VERDRÄNGUNG

Title (fr)  
MOTEUR HYDRAULIQUE À CYLINDRES RADIAUX ET DÉPLACEMENT VARIABLE CONTINU

Publication  
**EP 2013475 A1 20090114 (EN)**

Application  
**EP 06745292 A 20060420**

Priority  
IT 2006000267 W 20060420

Abstract (en)  
[origin: WO2007122643A1] A radial cylinder hydraulic motor having continuously variable displacement capabilities comprises: oscillating hydraulic cylinders (1) which are driven to oscillate through an eccentric crankpin (2) formed on the motor shaft (3) and carrying a radially movable ring (14) adapted to be shifted along the radial direction of the crankpin by actuation of opposed counteracting hydraulic cylinders (5, 6, 7) housed within the crankpin; a hydraulic control circuit for controlling and adjusting the positions of said counteracting hydraulic cylinders in a continuous manner; an electronic control circuit adapted to control the hydraulic control circuit and process signals from at least one position sensor arranged to detect the positions of said oscillating cylinders; a rotary joint (8) for hydraulic conduits (9, 10) through which said counteracting hydraulic cylinders are controlled and adjusted; wherein the sensor (45) is an angular position sensor placed close to the oscillation axis (C) of at least one oscillating cylinder (1) to measure, based upon changes in the signal, an angular position currently entered by the cylinder liner during the swing.

IPC 8 full level  
**F03C 1/04** (2006.01); **F04B 49/12** (2006.01)

CPC (source: EP US)  
**F03C 1/046** (2013.01 - EP US); **F03C 1/223** (2013.01 - EP US); **F04B 1/07** (2013.01 - EP US); **F04B 49/125** (2013.01 - EP US); **F04B 2201/0201** (2013.01 - EP US); **F04B 2201/1213** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007122643A1

Cited by  
DE102015214837A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**WO 2007122643 A1 20071101**; **WO 2007122643 A8 20071227**; AT E459801 T1 20100315; CN 101432520 A 20090513; CN 101432520 B 20110608; DE 602006012742 D1 20100415; EP 2013475 A1 20090114; EP 2013475 B1 20100303; JP 2009534575 A 20090924; JP 4842372 B2 20111221; US 2009151551 A1 20090618; US 8235680 B2 20120807

DOCDB simple family (application)  
**IT 2006000267 W 20060420**; AT 06745292 T 20060420; CN 200680054268 A 20060420; DE 602006012742 T 20060420; EP 06745292 A 20060420; JP 2009506044 A 20060420; US 22640806 A 20060420